

Best Local Similarity 41.6%; Pred. No. 8.9e-71;
Matches 241; Conservative 114; Mismatches 166; Indels 59; Gaps 10;

QY	22	HTDSSAGRP--VEFVEOGG-----YEKPEKTVEDYKCKCKLTVLCSKQTECGH	70
Db	3	HSEDAVAPCAPIKQNSGNSISLDFEEDTEQVPEQVLEERYKCAFCGYSVLHNFQTCGH	62
QY	71	PFCSMAALLS--SSSPKTAQGEISVKDYKFNCKCKREILAIQIYCRNESKCAEQLT	129
Db	63	RFCCOOCISRLSELNSVPICPADKCEVILPQEFYKCNCKRVELNLHYCKN--AGCNAIRI	121
QY	130	LGHLIHLKNCNCHPEELPCVAPDCKEKVLRKRLDHDYKCAKCYREATCSCKSQVPAL	189
Db	122	LGRFODHLQH--CSQVAVPCPNESCREFMLRKDVAKHEHLSAYCFREEKCLYCKRDIVYTNL	180
QY	190	QKHEDTDCPCVAVSCPHKCSVOTLLRSELNAHLSVCYNAPSTCSFKRYGCVFOGTNOIK	249
Db	181	QDHENSCPAPVAPSCPNRC--VQTLPRARVNHDLTVCEADQDCPFKHYGCTVAGKRGNTL	239
QY	250	AHEASAVOHVNLKENSNSLEKKVSLILLQNSVEKKNKSISLHNOCSFELEIEROKEML	309
Db	240	EHERRALQDHLMLVLEKNYQLEQRISDLQYSLEQKESKIQQLLETVYKFEKELKQFQMF	299
QY	310	RNN-----ESKILHLQRYVDSQAEKLEKELDKIRPFRRNWEADS	349
Db	300	GRNGEFLSNVQALSHTDKSMLEAQVRHLLQIYNOQPSNL-----DLRS	344
QY	350	MKSSVESIQNFVTELESVDKSAGOVANRTGLLESQLSRHDDMSVHDIRLADMLRFOVL	409
Db	345	LVDANDSVKQKITQLEASD-----ORLVLEEGESTKHDAHINIHRAQNLNKKNEERKOL	397
QY	410	ETASVNGVLIKIDYKRRKQKAVMGKTLISYSPFTGYGYKMCARVNLINDGMKGT	469
Db	398	EGACSGGLIKVYDIRYKRRKREAVEGHTVSFQSPFTTSCRGYLCRALINDGSGKGT	457
QY	470	HLSEFLVIMRGEYDALLPWPEFKQKVTILMLDQSSRRHLGDAEPDPDNSSSEFKPTGEMN	529
Db	458	HLSTFLVVMREPEFSLQWMPRQKRVTTMLLDSQSKKNHIVETEFKADPNSSSFRRPDGEM	517
QY	530	IASGCPVFAQTVLEN--GYIKRQDTLFIKIVYVTSPLP	567
Db	518	IASGCPFRVSHSTLENSKNYIKKDTLFLKVAVDLTLED	557
RESULT 2			
P70191			
ID	P70191	PRELIMINARY;	PRT; 558 AA.
AC	P70191:		
DT	01-FEB-1997 (TReMBLrel. 02, Created)		
DT	01-FEB-1997 (TReMBLrel. 02, Last sequence update)		
DT	01-JUN-2002 (TReMBLrel. 21, Last annotation update)		
DE	TRAF5 (Similar to TNF receptor-associated factor 5).		
GN	TRAF5.		
OS	Mus musculus (Mouse).		
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
CC	Mammalia; Eutheria; Rodentia; Sciurognath; Muridae; Murinae; Mus.		
OX	NCBI_TaxID=10090;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RX	MEDLINE=96382484; PubMed=8790348;		
RA	Ishida T., Tojo T., Aoki T., Kobayashi N., Ohishi T., Watanabe T.,		
RA	Yamamoto T., Inoue J.;		
RT	"TRAF5, a novel tumor necrosis factor receptor-associated factor		
KT	family protein, mediates CD40 signaling."		
RL	Proc. Natl. Acad. Sci. U.S.A. 93:9437-9442(1996).		
RL	[2]		
RP	SEQUENCE FROM N.A.		
RC	TISSUE-COLON:		
RA	Strausberg R.;		
CC	Submitted (Aug-2001) to the EMBL/GenBank/DBD databases.		
CC	-1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.		
DR	EMBL; D83528; BA011942.1; "-		
DR	EMBL; BC012702; AA012702.1; "-		

DR MGD; MG1:107548; Traf5.
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; znf_ring.
DR InterPro: IPR001293; znf_TRAF.
DR Pfam: PF00917; MATH; 1.
DR Pfam: PF00097; zf-C3HC4; 1.
DR Pfam: PF02176; zf-TRAF; 2.
DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
DR PROSITE: PS00518; zf_RING_1; 1.
DR Receptor; Zinc-finger.
KW SEQUENCE 558 AA; 64145 MW; 486461B83BD58785 CRC64;
SQ

Query Match	41.7%;	Score 1253.5;	DB 11;	Length 558;
Best Local Similarity	42.9%;	Pred. No. 8.9e-71;		
Matches 243;	Conservative 116;	Mismatches 176;	Indels 31;	Gaps 11;

[illegible]

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RX MEDLINE=98172745; Pubmed=9511754;
RA Mizushima S., Fujita M., Ishida T., Azuma S., Kato K., Hirai M.,
RA Otsuka M., Yamamoto T., Inoue J.;
RT "Cloning and characterization of a cDNA encoding the human homolog of
RT tumor necrosis factor receptor-associated factor 5 (TRAF5).";
RL Gene 207:135-140(1998).
RN [2]
RN SEQUENCE OF 20-557 FROM N.A.
RX MEDLINE=97321041; Pubmed=9177772;
RA Nakano H., Shindo M., Yamada K., Yoshida M.C., Santee S.M., Ware C.F.,
RA Jenkins N.A., Gilbert D.J., Yagita H., Copeland N.G., Okumura K.;
RT "Human TNF receptor-associated factor 5 (TRAF5): cDNA cloning,
RT expression and assignment of the TRAF5 gene to chromosome 1q32.";
RL Genomics 42:26-32(1997).
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DR EMBL: AB000509; BAA25262.1; -
DR EMBL: U69108; AAC51329.1; -
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; ZnF_RING.
DR InterPro: IPR001293; ZnF_TRAF.
DR Pfam: PF00917; MATH; 1.
DR Pfam: PF00097; zf-C3HC4; 1.
DR Pfam: PF02176; zf-TRAF; 2.
DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
DR PROSITE: PS00518; ZF_RING_1; 1.
DR Zinc-finger.
SQ SEQUENCE 557 AA; 64405 MW; 86EB3724CE11176 CRC64;

Query Match 39.6%; Score 1192.5; DB 4; Length 557;
Best Local Similarity 42.0%; Pred. No. 5.9e-67;
Matches 232; Conservative 121; Mismatches 178; Indels 21; Gaps 9;

QY 25 RSAGTGVFVPEQGGYKFKVTEEDKYKCEKCHLVCSPKQTEGCHRCESCMALLS-S 83
DB 17 QNSGTSISIDPFSIEQYFVERLEERYKCAPCHSLNHPHOGCHRCQCHCITLSRLN 76
QY 84 SSPKCTACQESTIVKDKVFCKDCCKREILALQTCRNESBGCAEQTLTCHLVKNDCHF 143
DB 77 TVPICVDREVKIQSEVFKDCCKREVLTLYVCN-APGCAKAYILGRYDHLQ-QCLF 134
QY 144 EELPCVRPRCKEVLKRDLDHVEKACKYREATCSHCKSQVPMALOKHEPDPCVYVS 203
DB 135 QPQVCSNEKCRPEVLKDKLHLSASCORREKCLYCKKDVVYVILQNHENLCEPYVF 194
QY 204 CPFKCSVQTLRLSELSEHLSECUNAPSTCSFKRYGCVFQGTNOQIKAHASSAVQVNL 263
DB 195 CPANCA-KILKTEVDENHLAVCPREADQCPFKHYGCAVTDKRRNLQDHEHSLREHMLV 253
QY 264 KEKSNLEKKVSLQNESVEKKNKSTOSLNQICSPETIEERQEKMRNNEKILHORYI 323
DB 254 LKKNVLEEDQIDSLHKSLSQKESKIQDLAETTKLEKEKQKQAPLQGGKSGFLPNIQ-VF 312
QY 324 DSOAKELKELKEIRPF-----RQNMEDADSKSSVESLQNRVTELESVDKSAQVANN 377
DB 313 ASHTDSAMLEAOVHQLQVNOQKQKFLRLMEAVDQVQKQITLLEND-----QR 365
QY 378 TGLLESQSHNDMLSVHDIRLADMFLRFQVLETASVNGVLTWKTRIDYKRRQEAVMGT 437
DB 366 LAVLEEBTJNHDHINIHKQKLSKNEERFKLEGTCYNKLLMKVYDKMKKREAVDGHF 425
QY 438 LSLYQPFYTGFGYKMCARVYINGQMKGTLSLFFVIMGEVYALLPMPPKQVTLM 497
DB 426 VSFSSQFYSRCGYRLCAAYLNGDGSGRGSHLSLYFVVMRGEFSLQMPFQVYTLM 485
QY 498 LMDGSRRLGDAPKPDPNSSFKKPTGEMINIASGCPVFAQTVLEN--GTYIKDITLF 555
DB 486 LLDO-SKKKIMETFKRDPNSSFRRPDGEMINIASGCPRVAVSHVENKKNAYIKDITLF 544
QY 556 IKVIYDTSLPD 567
DB 545 LKVAVDLTLD 556

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RESULT 4
ID 054896 PRELIMINARY; PRT: 508 AA.
AC 054896;
DT 01-JUN-1998 (TREMBLrel. 06, Created)
DT 01-JUN-1998 (TREMBLrel. 06, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Tumor necrosis factor receptor associated factor 2a.
GN TRAF2A.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RN SEQUENCE FROM N.A.
RP STRAIN=C57BL/6; TISSUE=KIDNEY;
RC MEDLINE=98129826; Pubmed=9461607;
RA Brink R., Lodish H.F.;
RT "Tumor necrosis factor receptor (TNFR)-associated factor 2a (TRAF2a),
RT a TRAF2 splice variant with an extended RING finger domain that
RT inhibits TNFR2-mediated NF-kappaB activation.";
RL J. Biol. Chem. 273:4129-4134(1998).
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DR EMBL: AF027570; AAC53545.1; -
DR HSSP: P12351; 1HMT.
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; ZnF_RING.
DR InterPro: IPR001293; ZnF_TRAF.
DR Pfam: PF00917; MATH; 1.
DR Pfam: PF00097; zf-C3HC4; 1.
DR Pfam: PF02176; zf-TRAF; 2.
DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
DR PROSITE: PS00518; ZF_RING_1; 1.
DR Receptor; Zinc-finger.
SQ SEQUENCE 508 AA; 56757 MW; 74B8B26BFC9B1C4 CRC64;

Query Match 27.7%; Score 832; DB 11; Length 508;
Best Local Similarity 33.7%; Pred. No. 2e-44;
Matches 199; Conservative 90; Mismatches 190; Indels 112; Gaps 19;

QY 3 SSKMDSPGALQTNPLKLTDSAGTGVFVPEQGGYKFKVKT-VEDKYKCEKCHLVLC 61
DB 2 AAAYTSPGSLLELP-----GSKTLTGRLAKYLCSSACKNILLR 42
QY 62 SPKQTEGCHRCESCM-----AALLSSSPK-CTAC-----QEST---VKDKVFQDNC 105
DB 43 RPFQAGCGHRCSCFLTSLRCASILSSSGPONCAACVDEGLYEGISILSSSAFPDMA 102
QY 106 CKREILALQTCRNESBGCAEQTLTCHLVKNDCHFEELPCVRPCKEVLKRDLDH 165
DB 103 ARREVESIPAVCPND--GCTWKGTLKYESCHBGLCPPLTEC--PACKGLVRLSEKHH 158
QY 166 VEKACKYREATCSHCKSQVPMIALQKHEDTDCPVVYSCPRKCSVQTLRLSELSEHLSEC 225
DB 159 TQDECPKRLSLSCQHRACRASHVDELVNEYV-CPKRPILTC-DGCGKKIKRPETFDHVRAC 216
QY 226 VNAPSTCSFKRYGCVFQGTNOQIKAHASSAVQVNLKESNLSLEKVS----- 275
DB 217 SKCRVLCFHFHYVGESEVETELQDHELRDLREHLALL--LSFLEQASGTLNVOGRE 274
QY 276 ILQNSVVRKNKSTOSLNQICSPETIEERQEKMRNNEKILHORYVDSQAEKLELDK 335
DB 275 LLDQKQILEQK-TATFENIVCYLREVER-----VAYTAECSSQHRLDQ 318
QY 336 EIRPFRQWNEADSKSSVESLQNRVTELESVDKSAQVANNGLLESQSLSRHNDMLSVH 395
DB 319 D-----KTEALSNNKVQOLE-----RSIGL-----K 338
QY 396 DTRLADMFLRFQVLETASVNGVLTWKTRIDYKRRQEAVMGTLSLQSPFTGYGFGYKMC 455

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OY 264 -----KENSNSLEKVVSLQ-----NESVEK-----NKSTQSLHNOICS 297
DB 266 RLRAEGAGENOE--DSGLGRPEDAPAPAGPNAAGGCGPGVQOKTALENTVCV 323
OY 298 FEIEIEROKEMLRNNESIILHQRVIDSQAEKLEKDEKEIRPFQONNEADSMKSESL 357
DB 324 LNREVERSAITL-----EALSQRRLDQ-----KIENL 352
OY 358 QNRVTELESVDKSAGVARNLTGLESQLSRHDQMLSVHDIRLADMRLFOVLETA5NGV 417
DB 353 SNKRQLE-----RTLTMRDLQLAESQSLRELOFCTYDGV 388
OY 418 LMKIRDKRRKQAEVAMKSTISLQPFYTGFGYKMKARVYLNGDGKGTHTLSLEFVI 477
DB 389 FIWKIADFSRRQDAVGGRAAPMSPAFYSKYGKMLRLYLNGDGTGRTHTLSLEFVV 448
OY 478 MRGEYDALLPMPFKOKVTLMMDGSSRRHLGDAFKPD 515
DB 449 MRGYDALLKMPFSOKVTLMMLDQ-NNREHILDAFRPD 485

RESULT 7
O14848 PRELIMINARY: PRT: 470 AA.
AC O14848:
DT 01-NOV-1996 (TREMBLrel. 01, Created)
DT 01-NOV-1996 (TREMBLrel. 01, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE Cystein rich domain associated to RING and TRAF protein.
OS MLN 62, CART1.
OC Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-BREAST DERIVED METASTATIC LYMPH NODE;
RX MEDLINE=96039245; PubMed=7490069;
RA Tomasetto C., Regnier C.H., Moog-Lutz C., Mattel M.G., Chenard M.P.,
RA Lidereau R., Basset P., Rio M.C.;
RT "Identification of four novel human genes amplified and overexpressed
RT in breast carcinoma and located to the q11-q21.3 region of chromosome
RT 17";
RL Genomics 28:367-376(1995).
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE-BREAST DERIVED METASTATIC LYMPH NODE;
RX MEDLINE=96029665; PubMed=7592751;
RA Regnier C.H., Tomasetto C., Moog-Lutz C., Chenard M.P., Wendling C.,
RA Basset P., Rio M.C.;
RT "Presence of a new conserved domain in CART1, a novel member of the
RT tumor necrosis factor receptor-associated protein family, which is
RT expressed in breast carcinoma.";
RL J. Biol. Chem. 270:25715-25721(1995).
RN [3]
RP SEQUENCE FROM N.A.
RC TISSUE-BREAST DERIVED METASTATIC LYMPH NODE;
RX MEDLINE=98175888; PubMed=9507120;
RA Masson R., Regnier C.H., Chenard M.P., Wendling C., Mattel M.G.,
RA Tomasetto C., Rio M.C.;
RT "Tumor necrosis factor receptor associated factor4 (TRAF4) expression
RT pattern during mouse development.";
RL Mech. Dev. 71:187-191(1998).
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DB EMBL: X80200; CAA56491.1;
DB InterPro: IPR002083; MATH.
DB InterPro: IPR003007; TRAF.
DB InterPro: IPR001841; znf_ring.
DB InterPro: IPR001293; znf_TRAF.
DB Pfam: PF000917; MATH; 1.
DB Pfam: PF00097; zf-C3HC4; 1.
DB Pfam: PF02176; zf-TRAF; 3.

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DR SMART; SM00061; MATH; 1.
DR SMART; SM00184; RING; 1.
DR PROSITE; PS00518; ZF_RING_1; 1.
KW Zinc-finger.
SQ SEQUENCE 470 AA; 53443 MW; 5D457ED5A78770E2 CRC64;

Query Match 18.6%; Score 560.5; DB 4; Length 470;
Best local Similarity 24.9%; Pred. No. 1,9e-27;
Matches 147; Conservative 75; Mismatches 173; Indels 195; Gaps 13;

OY 38 GYKEKFKYVEDKYKCEKHLVCSPRQ--TEGHRRCESCMALLSSSPKCAQCESIV 96
DB 3 GFDYKFLKPKRRRLCPGLCGKPMREPOVSTCGHRCDCLOFSEGVKCPEDDLPID 62
OY 97 KDVFPKDNCKREILALQYICRNESRGCAEQLTGLHLVHLKDKHFEELPCVRPD-CKE 155
DB 63 YAKIYDPPELEVOVLPIPICTHSEGCRRSGRLRLQHL-NTGSFNNIPC--PKRCM 119
OY 156 KVLKDLRDHVERACKYREATCSHCKSQVPMIALQHE----- 193
DB 120 KLSRDLPAHLQHDCCPRRLKCEFCGDDFGSEAYESHGCMQESVYCEKKGARMRG 179
OY 194 -----DT-----DPCVYVSCPHKCSVOTLLRSELSAH 222
DB 180 LAQHATSECPKRPCTCYTKEEFVDTIOSHOYQCPRLPACPNQCGVGTAREDPGLH 239
OY 223 SE-CVNAPSICSPKRCVPGTNOITKAHEASSAVQHVNLKENSNSLEKVVSLQNES 281
DB 240 KDSQNTLVLCIPFDSCKRCKLMARVSESVKPHLMM----- 281
OY 282 VEKKNSTQSLHNOICSEIEIEROKEMLRNNESIILHQRVIDSQAEKLEKDEIRPF 341
DB 282 -----CA-----LVSRQRELDELREL---- 299
OY 342 QNNEADSMKSVSLONRVTELESVDKSAGVARNLTGLESQLSRHDQMLSVHDIRLAD 401
DB 300 -----EELSV----- 304
OY 402 MDLRFVLETA5NGVLMKIRDKRRKQDAVAMKSTLSLQPFYTGFGYKMKARVYL 461
DB 305 -----GSGCVLIMKIGSGRLQEKAKKPNLECSPAFYTHKYGKLOVSAFLN 353
OY 462 GDGKGTHTLSLEFVIMGEYDALLPMPFKOKVTLMMDG-----SSRHLGDAFKDPN 517
DB 354 GNGSGEGHTLSLRYLPGAFDNLLEWPFARVYFSLDSDPOLAKPOHVFTEFHDPN 413
OY 518 SSSFRKP-----TGMNIIASGCPVFAQVYLENGTYIKDTIFIKYIVD 561
DB 414 WKNFQKPTWGRGSLDESLGFGYKFTSHODIRKRNRYRDDAVITRAVE 463

RESULT 8
O9BUZ4 PRELIMINARY: PRT: 470 AA.
AC O9BUZ4:
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE TNF receptor-associated factor 4.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-EYE;
RA Strausberg R.;
RL Submitted (JAN-2001) to the EMBL/GenBank/DBJ databases.
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DB EMBL: BC001769; AA01769.1;
DB InterPro: IPR002083; MATH.
DB InterPro: IPR003007; TRAF.
DB InterPro: IPR001841; znf_ring.

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DR InterPro: IPR001293; Znf_TRAF.
 DR Pfam: PF00917; MATH; 1.
 DR Pfam: PF00097; zf-C3HC4; 1.
 DR Pfam: PF02176; zf-TRAF; 3.
 DR SMART: SM00061; MATH; 1.
 DR SMART: SM00184; RING; 1.
 DR PROSITE: PS00518; ZF_RING_1; 1.
 DR Receptor: Zinc-finger.
 KW Receptor; Zinc-finger.
 SO SEQUENCE 470 AA; 53542 MW; A3F57E0E1081AB8 CRC64;

Query Match 18.6%; Score 560.5; DB 4; Length 470;
 Best Local Similarity 24.9%; Pred. No. 1.9e-27;
 Matches 147; Conservative 75; Mismatches 173; Indels 195; Gaps 13;

QY 38 GYKFKVYKVEDYKCEKCHLVLCSPKQTEGCHRCESCMALLSSSPKCTACQESTIV 96
 DB 3 GFYKFLKPKRRLCLPCLGKPRFVQVSTGCHRCDCLOEFSEGVKCPEDOLP 62
 QY 97 KDKVFKNCCREILALQIYCRNENSCAEOLTLHLVHLKNDCHFEELPCVPRD-CKE 155
 DB 63 YAKIYDPDELEVGLPIRCIHSEGCRCWSPRLHLOGLHNTCSFNVIPC-FNRCPM 119
 QY 156 KYIKRLRQHVKEKCKYKREATCSHCKSQVPMALQKHE----- 193
 DB 120 KLSRRLPAHLQHDCEKRLKCEFCGDESGEAYESHGEMCPQESYVCENKCGAMMRRL 179
 QY 194 -----DT-----DCPCVYVSCPHKCSYOTLLRSELSAHL 222
 DB 180 LAQHATSECPKRNQPTCTCTKEFVDTIQSHQCPRLPVCAPNQCQGTVARDELPHL 239
 QY 223 SE-CVNAPTSCFKRYGCVQGTNOQIKAHSSAVOHVNLKENSLEKKVSLQNES 281
 DB 240 KQSCNTALVCPFKSGCKHRCPLAMARHVESVYKPHLAMV----- 281
 QY 282 VEKNKSIOSLHNOICFELIEIRKEMLNNSKILHLQRYVDSQAEKLKELDKERPR 341
 DB 282 -----CA-----LVSRRQELQELREL----- 299
 QY 342 QWNEADSKSVESLQNEVTELESYDVSAGAVARNTGLLESQLSRHDOMLSVHDRLAD 401
 DB 300 -----EELSY----- 304
 QY 402 MDLRFVLETAASYNGVLIMKIRDYKRRKQEAVMGKTLISYOPFTGTYGKMCARYLN 461
 DB 305 -----GSDGVLLIMKIGSYGRLOEAKAKPNLECFSPAFYTHHYGKLOVSAPLN 353
 QY 462 GDGKMGKTHLSLFVIMRGEYDALPMPFKOKVTLMLMDG-----SSRRHGDAPKPPN 517
 DB 354 GNGSGEGHLSIYIVLGAARDNLLEMPFARVYTSLLDQSDPLAKQAHVTEFHDPN 413
 QY 518 SSSFKP-----TGENNIASGCPVFAQVLENGTYIKDDTIFIKVIVD 561
 DB 414 WNFQKPGTWNGSLDESSLGFYGFISHODIRKKNYVRDVAVIRAAVE 463

RESULT 9

QY4K3 PRELIMINARY; PRT; 522 AA.
 AC QY4K3;
 DT 01-NOV-1999 (TREMBLrel. 12, Created)
 DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE Putative Interleukin 1 signal transducer.
 GN TRAF6.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE=96434892; PubMed=8837778;
 RA Cao Z., Xiong J., Takeuchi M., Kurama T., Goeddel D.V.;
 RT "TRAF6 is a signal transducer for interleukin-1.";

RL Nature 383:443-446(1996).
 CC - SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
 DR EMBL: U78798; AAB8751.1; -.
 DR HSSP: P15919; IRMD.
 DR InterPro: IPR002083; MATH.
 DR InterPro: IPR000504; RNA_rec_mot.
 DR InterPro: IPR003007; TRAF.
 DR InterPro: IPR001841; Znf_Ting.
 DR InterPro: IPR001293; Znf_TRAF.
 DR Pfam: PF00917; MATH; 1.
 DR Pfam: PF00097; zf-C3HC4; 1.
 DR Pfam: PF02176; zf-TRAF; 2.
 DR SMART: SM00061; MATH; 1.
 DR SMART: SM00184; RING; 1.
 DR PROSITE: PS00030; RRM_RNP_1; UNKNOWN_1.
 DR PROSITE: PS00518; ZF_RING_1; 1.
 KW Zinc-finger.
 SO SEQUENCE 522 AA; 59573 MW; 5AB9C255CFF749 CRC64;

Query Match 18.4%; Score 553; DB 4; Length 522;
 Best Local Similarity 26.7%; Pred. No. 6.4e-27;
 Matches 144; Conservative 101; Mismatches 199; Indels 96; Gaps 16;

QY 32 FVPEGGYKKEKFTVBDKYKCEKCHLVLCSPKQTEGCHRCESCMALLSSSPKCTAC 91
 DB 49 FMEILOGDYVEFDPRLPSKYTCPCICMLARAVQTPCGHFCACITKIRDAHGKCPVD 108
 QY 92 QESTYKDKVFNCCREILALQIYCRNENSCAEOLTLHLVHLKNDCHFEELPCVPR 151
 DB 109 NEILENQLFPDNPFAKREILSLWKCPNE--GCILKKELRLBDH-QAHCEFALMCP--P 163
 QY 152 DCKEVLKRLDRDVEKAKYKREATCSHCKSQVPMALQKHEPTDCPCVYVSCPHKCSYQ 211
 DB 164 QCGRPQKFNHINHLDCRRQVSCDNCAASAFELKEIN-DONCPNAVITEY-CNT- 220
 QY 212 TLRLSELSAHL-ECVNAPTSCFKRYGCVQGTNOQIKAHSSAVOHVNLKENSLSL 270
 DB 221 ILIREQMPNHVDLDCPPAPITCFSTGCHERKQMRHLARHLQENQSHMRMLAQVHSL 280
 QY 271 EKKVSLQNESYVENKKSIOSLHNOICFELIEIRKEMLNNSKILHLQRYVDSQAEKL 330
 DB 281 -----SVLPDSGYIS--EVNRFQETIQLQELRLVRODQIRELTAKMETQSMYV 327
 QY 331 KELDKETPRQWNEADSKSVESLQNEVTELESYDVSAGAVARNTGLLESQLSRHQ 390
 DB 328 SELKRTIR-----TLEKVALEIA----- 346
 QY 391 MLSYHDRLADMDLRFVLETAASYNGVLIMKIRDY---KRRKQEAVMGKTLISYQSPY 446
 DB 347 -----QQCNGIYIWKIGNFGMHLKQDEE---KPYVHSRPFY 381
 QY 447 TGYFGYKMCARYLN-GDGKMGKTHLSLFVIMRGEYDALPMPFKOKVTLMLMDGSS- 504
 DB 382 TGRKGYKLCMRHLQDLPTAORCANYSLEFVNITMGEYDHLPPFGTIRLTLLDSEAP 441
 QY 505 -RRHLGDAFKPDPNSSSFKPTGEMNIAS-GCPVFAQVLENGTYIKDDTIFIKVIVT 562
 DB 442 VRQNHHEIMDAKELLALFQRPRTIPRNPKRGYVTFHNLALRQRTIKDDTILLVRCVST 501

RESULT 10

P70196 PRELIMINARY; PRT; 530 AA.
 AC P70196;
 DT 01-FEB-1997 (TREMBLrel. 02, Created)
 DT 01-FEB-1997 (TREMBLrel. 02, Last sequence update)
 DT 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
 DE TRAF6.
 GN TRAF6.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;

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RN [1]
RP SEQUENCE FROM N.A.
RA Inoue J.;
RT "TRAF6, a novel CD40 associated factor.";
RL J. Biol. Chem. 0:0-0(1996).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE-97067112; PubMed-8910514;
RA Ishida T., Mizushima S., Azuma S., Kobayashi N., Tojo T., Suzuki K.,
RA Aizawa S., Matsumoto T., Mostoslavsky G., Kleef E., Yamamoto T., Inoue J.;
RT "Identification of TRAF6, a novel tumor necrosis factor receptor
RT associated factor, protein that mediates signaling from an amino
RT terminal domain of the CD40 cytoplasmic region.";
RL J. Biol. Chem. 271:28745-28748(1996).
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DR EMBL; D84655; BAA12705.1; -
DR HSPSP; P15919; IRLMD
DR MGD; MGI:108072; Tiaf6.
DR InterPro; IPR002083; MATH.
DR InterPro; IPR000504; RNA_rec_mot.
DR InterPro; IPR003007; TRAF.
DR InterPro; IPR001841; znf_ring.
DR InterPro; IPR001293; znf_TRAF.
DR Pfam; PF00917; MATH; 1.
DR Pfam; PF00097; zf-C3HC4; 1.
DR Pfam; PF02176; zf-TRAF; 2.
DR SMART; SM00061; MATH; 1.
DR SMART; SM00184; RING; 1.
DR PROSITE; PS00030; RRM_RNP_1; UNKNOWN_1.
DR PROSITE; PS00518; zf_RING_1; 1.
KW Zinc-finger.
SQ
SEQUENCE 530 AA: 60082 MW: 992082084CEDB85B CRC64;

Query Match 17.8%; Score 536; DB 11; Length 530;
Best Local Similarity 25.7%; Pred. No. 7, 5e-26;
Matches 141; Conservative 97; Mismatches 206; Indels 104; Gaps 17;

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OY 555 FIKYIVDT 562
DB 502 LVRCVST 509

RESULT 11
ID 061382 PRELIMINARY; PRT; 470 AA.
AC 061382;
DT 01-NOV-1996 (Tremblrel. 01, Created)
DT 01-NOV-1996 (Tremblrel. 01, Last sequence update)
DT 01-JUN-2002 (Tremblrel. 21, Last annotation update)
DE Cysteine rich motif associated to Ring and Traf domains protein
DE (MCAF1).
GN TRAF4 OR CARL1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_Taxid=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE-98175886; PubMed-9507120;
RA Masson R., Regnier C.H., Chenard M.P., Wendling C., Mattei M.G.,
RA Tomasello C., Rio M.C.;
RT "Tumor necrosis factor receptor associated factor4 (TRAF4) expression
RT pattern during mouse development.";
RL Mech. Dev. 71:187-191(1998).
CC -1- SIMILARITY: CONTAINS 1 RING-TYPE ZINC FINGER.
DR EMBL; X92346; CAA63103.1; -
DR MGD; MGI:1202880; Tiaf4.
DR InterPro; IPR002083; MATH.
DR InterPro; IPR003007; TRAF.
DR InterPro; IPR001841; znf_ring.
DR InterPro; IPR001293; znf_TRAF.
DR Pfam; PF00917; MATH; 1.
DR Pfam; PF00097; zf-C3HC4; 1.
DR Pfam; PF02176; zf-TRAF; 3.
DR SMART; SM00061; MATH; 1.
DR SMART; SM00184; RING; 1.
DR PROSITE; PS00518; zf_RING_1; 1.
KW Zinc-finger.
SQ
SEQUENCE 470 AA: 53418 MW: 842P2168A926BAFB CRC64;

Query Match 17.4%; Score 524.5; DB 11; Length 470;
Best Local Similarity 24.1%; Pred. No. 3, 4e-25;
Matches 142; Conservative 75; Mismatches 178; Indels 195; Gaps 13;

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Db 300 -----EELSI----- 304
Qy 402 MDLRFVLETASYNGVLLIKIRDKRRKQEVNMGKTLISYQPYTGYFGYKRCARVYLN 461
Db 305 -----GSDGLVLMKIGSYGRRLQEKAKPNLECFSPAFYTHRYGKYLVSASLN 353
Qy 462 GDGMKRGHLSLFYFMVNGEVDALLPWFVKQVLTMLMDG-----SSRHLGDAFKPPDN 517
Db 354 GNGSEGHLSLYIRVLPGLADNLEWPLARKVYFSLDQSDPLGAKQHVTEFHPDPN 413
Qy 518 SSSEFKP-----TGMNIASGCPVFAQVLYENGTYIKDSTIFIKVYD 561
Db 414 WKNFQKPGTWGRSLDESSLGFGYFKFISHQDIRKNRYRDAVFLASVE 463

RESULT 12
Q9BIW7 PRELIMINARY; PRT; 462 AA.
ID 09BIW7
AC 09BIW7
DT 01-JUN-2001 (TREMBLrel. 17, Created)
DT 01-JUN-2001 (TREMBLrel. 17, Last sequence update)
DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
DE TRF-1.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxId=6239;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21407711; PubMed=11516642;
RA Pulol N., Link E.M., Liu L.X., Kurz C.L., Allong G., Tan M.,
RA Ray K.P., Solari R., Johnson C.D., Ewbank J.J.;
RT "A reverse genetic analysis of components of the Toll signaling
RT pathway in Caenorhabditis elegans.";
RL Curr. Biol. 11:809-821(2001).
DR EMBL: AF348168; AAK37546.1; -.
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; ZnF_ZnF.
DR InterPro: IPR001293; ZnF_TRAF.
DR Pfam: PF00917; MATH; 1.
DR Pfam: PF02176; zf-TRAF; 2.
DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
SQ SEQUENCE 462 AA; 52354 MW; E07F04BF1756B343 CRC64;

Query Match 17.4%; Score 522.5; DB 5; Length 462;
Best Local Similarity 26.1%; Pred. No. 4.5e-25;
Matches 136; Conservative 69; Mismatches 188; Indels 129; Gaps 12;

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Qy 412 ASYNGVLLIKIRDKRRKQEVNMGKTLISYQPYTGYFGYKRCARVYLNDGMKGTHL 471
Db 261 --FQPLIMKIDKLOQRTNNAKSGADTIFSVFMHRRGYKMMACALFGSSSAGKSI 318
Qy 472 STEFVIMRGEVDALLPWFVKQVLTMLMDG-----SSRHLGDAFKPPDNSSSKKPT 525
Db 319 SLVYLLKGEFDPTEWPFHRAIKISLDONPRPEDRVNITYIDPRKLKANEFARBR 378
Qy 526 GEMNIASGCPVFAQVLYENGTYIKDSTIFIKVYDTS-DLP 566
Db 379 GERMAAGSOSFCSLALION--YKDKIKVYDIDVRCETLP 418

RESULT 13
ID 062248 PRELIMINARY; PRT; 509 AA.
AC 062248
DT 01-AUG-1998 (TREMBLrel. 07, Created)
DT 01-AUG-1998 (TREMBLrel. 07, Last sequence update)
DT 01-MAR-2002 (TREMBLrel. 20, Last annotation update)
DE F45G2.6 protein.
GN F45G2.6.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxId=6239;
RN [1]
RP SEQUENCE FROM N.A.
RA Lindsey S.J.;
RL submitted (MAR-1997) to the EMBL/GenBank/DBJ databases.
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C. elegans: A platform for
RT investigating biology.";
RL Science 282:2012-2018(1998).
DR EMBL: Z93382; CAB07615.1; -.
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001841; ZnF_ZnF.
DR InterPro: IPR001293; ZnF_TRAF.
DR Pfam: PF00917; MATH; 1.
DR Pfam: PF02176; zf-TRAF; 2.
DR SMART: SM00061; MATH; 1.
DR SMART: SM00184; RING; 1.
SQ SEQUENCE 509 AA; 57514 MW; CFA0E068F5AD00C8 CRC64;

Query Match 17.4%; Score 522.5; DB 5; Length 509;
Best Local Similarity 26.1%; Pred. No. 5e-25;
Matches 136; Conservative 69; Mismatches 188; Indels 129; Gaps 12;

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QY 352 SVSEIQRNVTELESVDKSGAGVARNVTGLLESQLSRHDQMLSVHDIRLADMDLRFQVLET 411
Db 308 ----- 307
QY 412 ASYNGVLINKIRDKRRKROAVMGKTLISYQPFYTGYYKMCARVYLNGDGKGTIL 471
Db 308 --REPOLIMIKIDKLOQNTNEAKSGADTTIFSVFPMHSRGYKMMACACILFGDGSAGKSI 365
QY 472 SLEFVIMGEYDALLPMPFKOKVTLMMDQGS-----SRRLHGAFKDPDSSSEFKPT 525
Db 366 SLVYLLKGFDPTELEMPFRBAKISLLQONPREPDRVITVYIDPRKLKANEKFLARPR 425
QY 526 GEMNMSGCVFVAQTVLENGTYIKDPTIFIKVYDTS-DLP 566
Db 426 GERMAAFSGSFCSLAIQN--YKDKDIYQDVDRCELTLP 465

RESULT 14
QYXR0 PRELIMINARY: PRT: 486 AA.
AC QYXR0:
DT 01-NOV-1999 (TREMBLrel. 12, Created)
DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)
DE 01-JUN-2002 (TREMBLrel. 21, Last annotation update)
DE TRAF1 protein (L200987P).
GN TRAF1 OR CG3048.
OS Drosophila melanogaster (Fruit fly).
OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
OC ephydroidea; Drosophilidae; Drosophila.
OX NCBI_TaxID=7227;
RP SEQUENCE FROM N.A.
RC STRAIN=BERKELEY;
RX MEDLINE=20196006; PubMed=10731132;
RA Adams M.D., Celnik S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazey R.G., Champe M., Pfeiffer B.D.,
RA Wan K.H., Doyle C., Baxter E.C., Helt G., Nelson C.R., Miklos G.L.G.,
RA Abell J.F., Agbayani A., An H.-J., Andrews-Pfannoch C., Baldwin D.,
RA Baller R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borczyk D., Botchan M.R., Bouck J., Brockstein P., Brothier P.,
RA Butts K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
RA Durbin K.J., Evangelista C.C., Ferraz C., Gelbart W.M., Glaeser K.,
RA Foster C., Gabriellian A.E., Gary N.S., Gelbart W.M., Glaeser K.,
RA Glisic A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Hostin D., Houston K.A., Howland T.J., Hernandez J.R., Houck J.,
RA Jajuli M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kuip D., Lai Z.,
RA Laoko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
RA Liu X., Maitai B., McIntosh T.C., McLeod M.P., McPherson D.,
RA Merkulov G., Mishina N.V., Mobarly C., Morris J., Moshrefi A.,
RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Sinden-Klamas I., Simpson M., Skupski M.P., Smith T.,
RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
RA Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissbach J.,
RA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
RT "The genome sequence of Drosophila melanogaster."
RL Science 287:2185-2195(2000).

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RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=99147085; PubMed=10021364;
RA Liu H., Su Y.C., Becker E., Treisman J., Skolnik E.Y.;
RT "A Drosophila TNF-receptor-associated factor (TRAF) binds the src20
RT kinase Mischaplan and activates Jun kinase."
RL Curr. Biol. 9:101-104(1999).
RN [3]
RP SEQUENCE FROM N.A.
RC STRAIN=BERKELEY;
RA Stapleton M., Brokstein P., Hong L., Agbayani A., Carlson J.,
RA Champe M., Chavez C., Dorsett V., Drensek D., Fattar D., Fritze E.,
RA George R., Gonzalez M., Guatin H., Krommiller B., Li P., Lao G.,
RA Miranda A., Mungall C.J., Nuno J., Pacleb J., Paragas V., Park S.,
RA Patel S., Phouanavong S., Wan K., Yu C., Lewis S.E., Rubin G.M.,
RA Celnik S.;
RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL: AEO03576; AAF51024.1; -
DR EMBL: AF119794; AAD34346.1; -
DR EMBL: AF094792; AAM1145.1; -
DR FlyBase: FBgn026319; Traf1.
DR InterPro: IPR002083; MATH.
DR InterPro: IPR003007; TRAF.
DR InterPro: IPR001293; Znf-TRAF.
DR Pfam: PR00917; MATH; 1.
DR Pfam: PR02176; ZF-TRAF; 3.
DR SMART: SM00061; MATH; 1.
KW Receptor.
SQ SEQUENCE 486 AA; 53665 MW; 41474B5E014A9D5 CRC64;

Query Match 16.8%; Score 506; DB 5; Length 486;
Best Local Similarity 24.3%; Pred. No. 5.2e-24;
Matches 140; Conservative 77; Mismatches 187; Indels 172; Gaps 13;
QY 3 SSKKNDSPCALQTNPL-KLHTDRSAGTPVPEEGGKYEKFTVDEKRYCE----- 54
Db 67 SSHSPTPCNNNNNNPIELBQIYPG-----PDKHMSLVLCIHHKGGCKMSDLRK 121
QY 55 -KCHLVSPKPTGEGHFCSCMAALLSSSPKCTAQCSIVKDKKNCCKRETLAL 113
Db 122 LGHNLNACKHDTQCPN-----KCGADIPRIMTDLHQTCTMRRTRC- 164
QY 114 QYICRNESRGCAEQLTLGLHLVHLKNDCHFEELPCVPRDCKEYLRKDLNDHYEKAKYR 173
Db 165 -EFCQSEFSGAG-----LEHNSGCGPPTVC-EAKGQRLTKRMTLHNSKDCAKR 214
QY 174 EATSCCHCKSQVPMALQKHEDTDCPCVVVSCPHKCSVQTLRLSELNAHL-SECVNAPSTC 232
Db 215 LIRCAHCQREFSADTLPPLHA-AQCPRAPLACPGQCDAGPIPRGTEHLNHLDECOISLAVSC 273
QY 223 SFRKRGCVFOGTNOQIKRHESSAVOHVNLKENSNSLEKRVSLQNESVEKNSIOSLH 292
Db 274 SFKEGCGCFKPRQMLEHLESNAHLSLMVALLSSRGOOIOML----- 318
QY 293 NOICFEIEIEROKEMLRNNESKILHLQVIDSQAEKLKELDEIRFRNMEEADSMKS 352
Db 319 ----- 320
QY 320 SVSEIQRNVTELESVDKSGAGVARNVTGLLESQLSRHDQMLSVHDIRLADMDLRFQVLET 412
Db 321 AVSKL-----RS 327
QY 413 SYNGVLINKIRDKRRKROAVMGKTLISYQPFYTGYYKMCARVYLNGDGKGTILS 472
Db 328 NYTGTLKIKIDMSAKAEKRGKDGDELVSPPYTOYGIKLOASFMFLNGNGEWTWHS 387
QY 473 LEFVIMGEYDALLPMPFKOKVTLMMDQGS-----SRRLHGAFKDPDSSSEFKPTGEMN- 529
Db 388 VIKVLPGEYDALLKMPFSHTFTFTFEGGAGGQGVASFPDPDTWENFQPSNEPQD 447
QY 530 IASCPVFAVQTVLENGTYIKDPTIFIKVYDTS-DLP 565
Db 448 LGFGRPRFISHELLSHRPITKGTIVFLRYKVPDPSKI 483

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RESULT 15

ID Q9UAC5 PRELIMINARY; PRT: 412 AA.

AC Q9UAC5; 09UAC5;

DT 01-MAY-2000 (Tremblrel. 13, Created)

DT 01-MAY-2000 (Tremblrel. 13, last sequence update)

DT 01-MAR-2002 (Tremblrel. 20, last annotation update)

DE TRAF1.

GN TRAF1 OR CG3048.

OS Drosophila melanogaster (Fruit fly).

OC Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;

OC Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;

OC Ephydroidea; Drosophilidae; Drosophila.

OX NCBI_TaxID=7227;

RN [1]

RP SEQUENCE FROM N.A.

RA Medzhilov R., Janeway C.;

RT "Drosophila TRAF proteins are components of innate host defense

RL Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.

DR EMBL: AF079837; AAD47894.1; -

DR EMBL: AF111422; AAG21891.1; -

DR FlyBase; FBgn0026319; TRAF1.

DR InterPro; IPR002083; MATH.

DR InterPro; IPR003007; TRAF.

DR Pfam; PF00917; MATH; 1.

DR SMART; SM0061; zif-TRAF; 3.

SQ SEQUENCE 412 AA; 46159 MW; 81A05147AA7D64CE CRC64;

Query Match 16.7%; Score 503; DB 5; Length 412;

Best Local Similarity 24.8%; Pred. No. 6.3e-24; Matches 129; Conservative 73; Mismatches 161; Indels 158; Gaps 10;

QY 49 DKYKCKHLYVCSFKQTEGCFCESCMAALLSSSPKCTACQESIYKDKVFKNCKKR 108
 DB 43 DELRKLKGHLNCKKDHANQCPN-----KCGAQIPRIMMTHDHLQYCTMR 86
 QY 109 EILALQIYCRNESRGCAQLTGLHLVHLKNDCHPEELPCVPRDCKEYLRKDLRDHYEK 168
 DB 87 RTRC--EFCQSEFSGAG-----LEEHNGSCGQEPYTC-EAKCGGRILGRMTLHRSK 135
 QY 169 ACKYRATCSHCKSOVPMIALOKHEDTDCPCVVVSCPHKCSVOTLLRSELSAHL-SECVN 227
 DB 136 DCAKRLRCARHCQRESADTLPILH-AOCPRAPLACPRCDAGPIPRGELAHRLGDECQS 194
 QY 228 APTCSFKRYGCVFQGTNOQIKAHBASSAVOHVNLKEMNSLEKVSLLONESVEKNKS 287
 DB 195 LAVSCSFKAGCGRFKGRQMLFAHLESNAAHLSIMVALSSROGOIOML----- 244
 QY 288 IOSLHNOICSELEIRCKEMLRNNESEKLIHQRYIDSOAKELKEIRPFQNWEEA 347
 DB 245 ----- 244
 QY 348 DSMKSSVESLONRVELESVDKSAQAVANGTILESQLSRHDOMLSVHDRLADMDFQ 407
 DB 245 ---KSAVSKL----- 251
 QY 408 VLETSYNGVLLWKINDYRRKQEAVMGKTLSLYSOPFTYGFYKRCARYLINDGMGK 467
 DB 252 ---SINTGTLLWKITDWSAKMAEARGKDELVSPPFTSQYGIKQASMLNGNGPGE 308
 QY 468 GTILSLFEYVIMRGEVDALLPMPFKOKVTLLMDQG--SSRHLGDAFKPDPSSSFKKPT 525
 DB 309 NTHVSYIKVLPGEYDALIKWPSHSITFTLEQCAQSGGQVAFSPDPPTWENFQPS 368

QY 526 GEMN-IASGCPVVAQTVLENGTYIKDDTIFIKYIVTSDL 565
 DB 369 NEPDOLGFGFPFRFISHLLHSRPFIKGDTVFLRAVDPSKI 409

Search completed: December 19, 2002, 14:55:32
 Job time : 42 secs